Egg Drop

Experiment!

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**The Scientific Method**

**Question: Will the egg break in my basket?**

**Observations: The egg is very delicate, needs to be secured well to not break.**

**Hypothesis: The egg will not break in our basket.**

**Experiment:**

1. **Materials:**

* **48 popsicle sticks**
* **A lot of masking tape**
* **Much hot glue**
* **Two pieces of bubble wrap**
* **One plastic bag**
* **One balloon**
* **Three tissues**
* **One foam cup**
* **Four rubber bands**

1. **Procedures:**

* **We started with the popsicle sticks. We made the sides of the basket and then the base with the popsicle sticks. We used hot glue and masking tape to keep the popsicle sticks together.**
* **Then we used hot glue to keep the sides together.**
* **Next, we lined the inside of the basket with bubble wrap and put four cotton balls on the base in each corner.**
* **Now we glued the foam cup in the middle of the basket and put tissues in it.**
* **Then we taped the plastic bag to the basket and glued the balloon inside the bag.**
* **Finally we placed the egg into the cup and put tape, tissues, and cotton balls over it.**

1. **Control and Variables:**

* **The Control: we all used the same type of egg and dropped it from the 10 foot tall ladder. Also, we had the same temperature, 70 degrees and partly sunny weather, with 6 mph winds.**
* **Independent Variable: again we used the same egg and dropped it from the same 10 foot tall ladder. We had the same temperature and wind speed.**
* **Dependent Variable: the bubble wrap, cotton balls, tissues, balloon, and the popsicle sticks helped my egg survive.**

**Collect and Analyze results:**

1. **What worked to save your egg?**

* **The popsicle sticks worked to secure the egg in the basket when it was dropped. Also the balloon worked as a parachute to make the fall slower.**

1. **What did not work to save your egg?**

* **Nothing because our egg survived.**

**Conclusion: Explain the results and final outcome of the experiment.**

* **The egg survived the drop but the sides of the basket broke slightly.**

**Communicate Results: How would you revise and or repeat the experiment?**

* **I would make the sides of the basket stronger and put more cushioning inside. I would also make the egg more secure in the basket by using more masking tape and make the sides of the basket even. I would repeat the structure of the basket and continue using the balloon, plastic bag, popsicle sticks, masking tape, cup, hot glue, and bubble wrap.**